

## Hoppe, Michael

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**From:** Vaughn, Stephanie  
**Sent:** Friday, September 27, 2013 1:34 PM  
**To:** Stan Kaczmarek; BudneySL@cdmsmith.com; Hoppe, Michael  
**Cc:** Gary.Foster@CH2M.com; George.Hicks@CH2M.com; Jennifer.Wilkie@CH2M.com; Willard Potter; Robert Law; John Rolfe  
**Subject:** RE: Hard Pan Areas: Sampling and Probing Plan  
**Attachments:** 20130926 RM10\_9 High Sub-GradeSediment Sampling Plan Final\_sv comments.pdf

Thanks, Stan.

As I told Rob yesterday, I tentatively approved the plan so that you may begin sampling today (which I assume has happened), but that I would be forwarding additional comments related to the language used in the plan.

Attached is a marked-up version of the pdf with my comments. In addition, the figures and table of contents should be modified to replace "modified cap area" with "undercut area."

Please let me know if you have any questions.

Stephanie

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**From:** Stan Kaczmarek [<mailto:StanK@demaximis.com>]  
**Sent:** Thursday, September 26, 2013 4:00 PM  
**To:** [BudneySL@cdmsmith.com](mailto:BudneySL@cdmsmith.com); Hoppe, Michael; Vaughn, Stephanie  
**Cc:** [Gary.Foster@CH2M.com](mailto:Gary.Foster@CH2M.com); [George.Hicks@CH2M.com](mailto:George.Hicks@CH2M.com); [Jennifer.Wilkie@CH2M.com](mailto:Jennifer.Wilkie@CH2M.com); Willard Potter; Robert Law; John Rolfe  
**Subject:** Re: Hard Pan Areas: Sampling and Probing Plan

Based on comments received this morning, the Sampling and Probing Plan has been modified by adding PAHs as an analyte, and by specifying how sampling will occur around rocks and other impediments. The revision is attached. Sampling and probing is scheduled to begin on Friday morning.

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>>> On 9/25/2013 at 4:52 PM, in message <52434D23.127 : 149 : 51652>, Stan Kaczmarek wrote:

Stephanie and Mike,

Attached is CPG's proposed Sampling and Probing Plan for hard pan areas that were previously surveyed. Upon your approval, it will be implemented this week.

Also included is a figure showing how many coring events were involved in the collection of 24 historical

sediment samples within 40 feet of the shoreline boundary of the Removal Area (each line represents a new coring attempt or event). It was noted that refusal was encountered at less than 2 foot sediment depth at least once at 10 of these locations, highlighted by a box on the figure.

Please call Rob Law, Bill Potter or myself if you have any questions.

**Stan Kaczmarek, PE**

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